

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  P205-0050WO	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, Item 5 below.</small>	
International application No.  PCT/JP2005/004721	International filing date (day/month/year)  10/03/2005	(Earliest) Priority Date (day/month/year)  11/03/2004
Applicant  CANON KABUSHIKI KAISHA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regard to the drawings,**

a. the figure of the drawings to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2005/004721

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N7/36 H04N7/26 H04N7/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG X-D ET AL: "Dynamic selection and effective compression of key frames for video abstraction" PATTERN RECOGNITION LETTERS, NORTH-HOLLAND PUBL. AMSTERDAM, NL, vol. 24, no. 9-10, June 2003 (2003-06), pages 1533-1542, XP004410690 ISSN: 0167-8655 paragraph '0002!	1-11, 14-19, 22-29
X	SIKORA T: "MPEG STANDARDS SECTION 1 DIGITAL VIDEO CODING STANDARDS" DIGITAL CONSUMER ELECTRONICS HANDBOOK, 1997, pages 803-823,I, XP001059402 paragraph '8.3.3!; figure 8.5 ----- -/--	1,2,10, 11,16-19

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

18 July 2005

Date of mailing of the international search report

26/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Georgiou, G

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2005/004721

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TUDOR P N: "TUTORIAL MPEG-2 VIDEO COMPRESSION" ELECTRONICS AND COMMUNICATION ENGINEERING JOURNAL, INSTITUTION OF ELECTRICAL ENGINEERS, LONDON, GB, vol. 7, no. 6, December 1995 (1995-12), pages 257-264, XP000545121 ISSN: 0954-0695 the whole document	1,2, 10-12, 16-20
X	----- EP 0 658 057 A (SHARP KABUSHIKI KAISHA) 14 June 1995 (1995-06-14) page 2, line 31 - page 3, line 12; figures 9,10	13,21
A	----- WO 01/26379 A (WORLD MULTICAST.COM, INC) 12 April 2001 (2001-04-12) page 4, line 11 - page 6, line 20; figures 1-4	1-29
A	----- TAMBANKAR A ET AL: "An overview of H.264 / MPEG-4 part 10" VIDEO/IMAGE PROCESSING AND MULTIMEDIA COMMUNICATIONS, 2003. 4TH EURASIP CONFERENCE FOCUSED ON 2-5 JULY 2003, PISCATAWAY, NJ, USA,IEEE, 2 July 2003 (2003-07-02), pages 1-51, XP010650106 ISBN: 953-184-054-7 the whole document	1-29
A	----- YI J LIANG ET AL: "Low-latency video transmission over lossy packet networks using rate-distortion optimized reference picture selection" PROCEEDINGS 2002 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2002. ROCHESTER, NY, SEPT. 22 - 25, 2002, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, NEW YORK, NY : IEEE, US, vol. VOL. 2 OF 3, 22 September 2002 (2002-09-22), pages 181-184, XP010607938 ISBN: 0-7803-7622-6 paragraph '0003!	1-29
	----- -/--	

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2005/004721

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>CHANG A ET AL: "A NOVEL APPROACH TO FAST MULTI-FRAME SELECTION FOR H.264 VIDEO CODING"</p> <p>ISCAS 2003. PROCEEDINGS OF THE 2003 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS. BANGKOK, THAILAND, MAY 25 - 28, 2003, IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, NEW YORK, NY : IEEE, US,</p> <p>vol. VOL. 2 OF 5,</p> <p>25 May 2003 (2003-05-25), pages II-704, XP001168642</p> <p>ISBN: 0-7803-7761-3</p> <p>paragraph '0003!</p> <p>-----</p>	1-29

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/JP2005/004721

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0658057	A	14-06-1995	JP	3050736 B2	12-06-2000
			JP	7162869 A	23-06-1995
			EP	0658057 A2	14-06-1995
			US	5859668 A	12-01-1999
<hr/>					
WO 0126379	A	12-04-2001	AU	7868600 A	10-05-2001
			WO	0126379 A1	12-04-2001
			US	6731813 B1	04-05-2004
<hr/>					